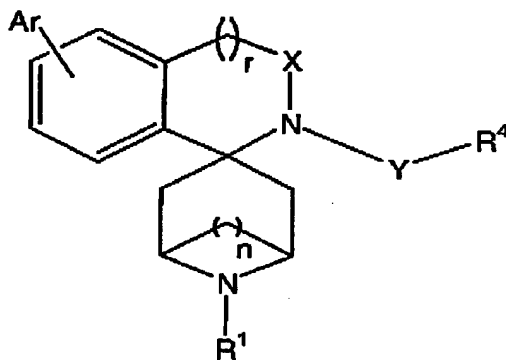


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This listing of claims will replace all prior versions, and listings, of claims in the application (note that amendments are highlighted in **bold**):

**Listing of Claims:**

1. (Currently Amended) A compound represented by the structural formula



formula I

or a pharmaceutically acceptable salt or solvate wherein

X is  $-\text{CH}_2-$ ,  $-\text{SO}_2-$ , carbonyl,  $-\text{CHCH}_3$  or  $-\text{C}(\text{CH}_3)_2-$ ;

Y is  $-(\text{CR}^2\text{R}^3)_p\text{C}(\text{O})\text{NH}-$ , wherein p is a number from 1 to 3 and when p is more than 1, each  $(\text{CR}^2\text{R}^3)$  can be the same or different;

n is 0, such that no connecting bond exists between the two carbons adjacent to the nitrogen;

r is 1;

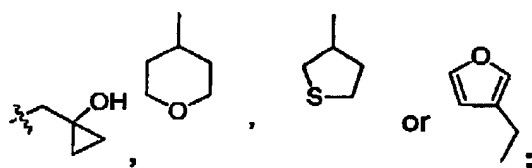
Ar is aryl or  $\text{R}^6$ -substituted aryl;

$\text{R}^1$  is hydrogen, ~~alkyl, cycloalkyl, aralkyl, heterocyclyl, heteroaralkyl,  $\text{C}(\text{O})\text{R}^5$ ,  $\text{C}(\text{O})\text{OR}^5$ ,  $\text{C}(\text{O})\text{NR}^8\text{R}^9$ ,  $\text{SO}_2\text{R}^5$ ,  $\text{SO}_2\text{NR}^8\text{R}^9$ , aryl, heteroaryl,  $\text{CF}_3$ , alkyl substituted with  $\text{R}^{10}$ , cycloalkylalkyl, cycloalkylalkyl substituted with  $\text{R}^{10}$  on the cycloalkyl ring,~~

methyl, ethyl, hydroxyethyl, cyclobutyl, cyclopentyl, cycloheptyl, -propyl,  $-\text{SO}_2\text{CH}_3$ ,  $-\text{SO}_2\text{N}(\text{CH}_3)_2$ ,  $-\text{COCH}_3$ ,  $-\text{C}(\text{O})\text{OC}(\text{CH}_3)_3$ , isopropyl, cyclopropylmethyl,

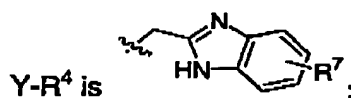
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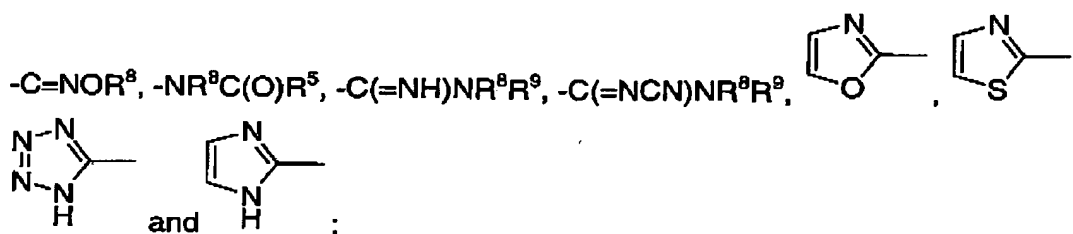
$R^2$  and  $R^3$  can be the same or different, each being independently hydrogen or -alkyl; or  $R^2$  and  $R^3$  can be joined together with the carbon to which they are attached to form a 3 to 7-membered ring;

$R^4$  is aryl,  $R^7$ -substituted aryl, or



$R^5$  is -alkyl, aryl, aralkyl or heteroaryl;

$R^6$  is 1 to 3 substituents, each  $R^6$  can be the same or different and each is independently selected from the group consisting of -OH, -alkoxy, -OCF<sub>3</sub>, -CN, -alkyl, halogen, -NR<sup>8</sup>R<sup>9</sup>, -C(O)NR<sup>8</sup>R<sup>9</sup>, -NR<sup>8</sup>SO<sub>2</sub>R<sup>5</sup>, -SO<sub>2</sub>NR<sup>8</sup>R<sup>9</sup>, -SO<sub>2</sub>R<sup>5</sup>, -C(O)R<sup>5</sup>, -C(O)OR<sup>5</sup>, -CF<sub>3</sub>, -(CR<sup>2</sup>R<sup>3</sup>)<sub>p</sub>-NR<sup>8</sup>R<sup>9</sup> where p is a number from 1 to 3, -CHO,



$R^7$  is hydrogen or 1 to 4 substituents, each  $R^7$  can be the same or different and each is independently selected from the group consisting of -OH, -alkoxy, -OCF<sub>3</sub>, -CN, halogen, -nitro, -NR<sup>8</sup>R<sup>9</sup>, -NR<sup>8</sup>C(O)R<sup>5</sup>, -C(O)NR<sup>8</sup>R<sup>9</sup>, -NR<sup>8</sup>SO<sub>2</sub>R<sup>5</sup>, -SO<sub>2</sub>NR<sup>8</sup>R<sup>9</sup>, -SO<sub>2</sub>R<sup>5</sup>, -C(O)R<sup>5</sup>, -C(O)OR<sup>8</sup>, -CF<sub>3</sub>, -(CR<sup>2</sup>R<sup>3</sup>)<sub>p</sub>-NR<sup>8</sup>R<sup>9</sup>, -(CR<sup>2</sup>R<sup>3</sup>)<sub>p</sub>-NR<sup>8</sup>C(O)R<sup>5</sup> where p is a number from 1 to 3, -C(=NH)NR<sup>8</sup>R<sup>9</sup>, -C(=NCN)NR<sup>8</sup>R<sup>9</sup> and -CHO; or two adjacent  $R^7$  groups can be joined together to form a methylenedioxy or ethylenedioxy group;

$R^8$  is hydrogen or -alkyl;

$R^9$  is hydrogen, -alkyl, aryl, substituted aryl, heteroaryl or aralkyl;

and

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$R^{10}$  is  $-\text{OH}$ ,  $-\text{alkoxy}$ ,  $-\text{cycloalkyl}$ ,  $-\text{cycloalkylalkyl}$ ,  $-\text{C}(\text{O})\text{NR}^8\text{R}^9$ ,  $-\text{NR}^8\text{R}^9$ ,  $-\text{NR}^8\text{SO}_2\text{R}^5$ ,  $-\text{NR}^8\text{C}(\text{O})\text{R}^5$ ,  $-\text{NR}^8\text{C}(\text{O})\text{OR}^5$ ,  $-\text{NR}^8\text{C}(\text{O})\text{NR}^8\text{R}^9$ ,  $-\text{C}(\text{O})\text{OH}$  or  $-\text{C}(\text{O})\text{OR}^5$ .

2. (previously presented) The compound of claim 1 wherein

X is  $-\text{SO}_2-$ ;

$R^2$  and  $R^3$  are hydrogen or alkyl;

and

n is 0.

3. (original) The compound of claim 2 wherein  $R^2$  and  $R^3$  are hydrogen.

4. (previously presented) The compound of claim 1 wherein

X is carbonyl;

$R^2$  and  $R^3$  are hydrogen or alkyl;

and

n is 0.

5. (original) The compound of claim 4 wherein  $R^2$  and  $R^3$  are hydrogen.

6. (previously presented) The compound of claim 1 wherein

X is  $-\text{CH}_2-$ ;

$R^1$  is hydrogen,  $-\text{alkyl}$ ,  $-\text{cycloalkyl}$ ,  $-\text{cycloalkylalkyl}$ , heteroaralkyl, heterocyclyl,  $-\text{alkyl}$  substituted with  $-\text{cycloalkyl}$ ,  $-\text{alkyl}$  substituted with  $R^{10}$ ,  $-\text{SO}_2\text{NR}^8\text{R}^9$ ,  $-\text{SO}_2\text{R}^5$ ,  $-\text{C}(\text{O})\text{R}^5$  or  $-\text{C}(\text{O})\text{OR}^5$ ;

$R^2$  and  $R^3$  are hydrogen or alkyl;

n is 0;

and

Ar is aryl or  $R^6$ -substituted aryl.

7. (original) The compound of claim 6 wherein

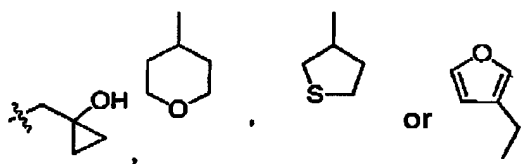
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$R^1$  is hydrogen, methyl, ethyl, hydroxyethyl, cyclobutyl, cyclopentyl, cycloheptyl, -propyl,  $-\text{SO}_2\text{CH}_3$ ,  $-\text{SO}_2\text{N}(\text{CH}_3)_2$ ,  $-\text{COCH}_3$ ,  $-\text{C}(\text{O})\text{OC}(\text{CH}_3)_3$ , isopropyl,

cyclopropylmethyl, heteroaryl,

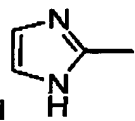


$R^2$  and  $R^3$  are hydrogen;

Ar is  $R^6$ -substituted aryl;

$R^6$  is 1 to 5 substituents which can be the same or different and each is independently selected from the group consisting of halogen,  $-\text{CF}_3$ ,  $-\text{OCF}_3$ ,  $-\text{CN}$ ,

$-\text{CHO}$ ,  $-\text{SO}_2\text{R}^5$ ,  $-\text{C}(\text{O})\text{OR}^6$ ,  $-\text{C}(\text{O})\text{R}^5$ ,  $-\text{C}(\text{O})\text{NR}^8\text{R}^9$  and



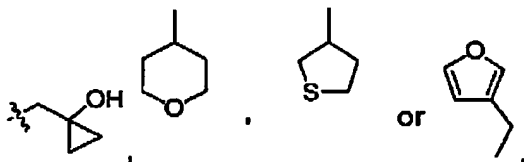
and

$R^7$  is two substituents which can be the same or different and independently selected from halogen,  $-\text{CN}$  and  $-\text{CF}_3$ .

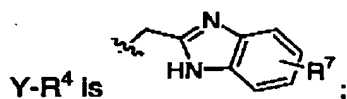
8. (original) The compound of claim 7 wherein  $R^6$  is one substituent.
9. (original) The compound of claim 8 wherein  $R^6$  is at the meta position of Ar.
10. (original) The compound of claim 9 wherein  $R^6$  is  $-\text{CN}$ .
11. (original) The compound of claim 9 wherein  $R^6$  is  $-\text{C}(=\text{NH})\text{NHAr}^1$  or  $-\text{C}(=\text{NH})\text{NH}_2$ .
12. (original) The compound of claim 10 wherein  $R^7$  is selected from the group consisting of Cl, F and  $-\text{CF}_3$ .
13. (Currently amended) The compound of claim 1 wherein  $R^1$  is hydrogen, methyl, ethyl, hydroxyethyl, cyclobutyl, cyclopentyl, cycloheptyl, -propyl,  $-\text{SO}_2\text{CH}_3$ ,  $-\text{SO}_2\text{N}(\text{CH}_3)_2$ ,

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$-\text{COCH}_3$ ,  $-\text{C}(\text{O})\text{OC}(\text{CH}_3)_3$ , isopropyl, cyclopropylmethyl, **heteroaryl**,



14. (previously presented) The compound of claim 1 wherein  
X is  $-\text{CH}_2-$ ;



n is 0;

Ar is  $\text{R}^6$ -substituted aryl;

$\text{R}^1$  is alkyl or cyclopropylmethyl;

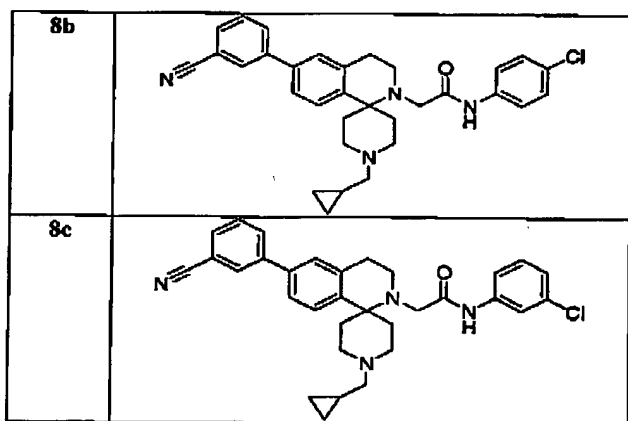
$\text{R}^6$  is  $-\text{CN}$  and is substituted at the meta position of Ar.

and

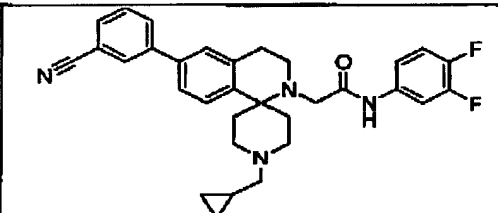
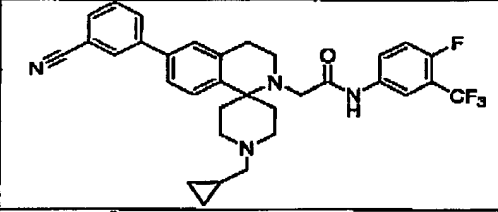
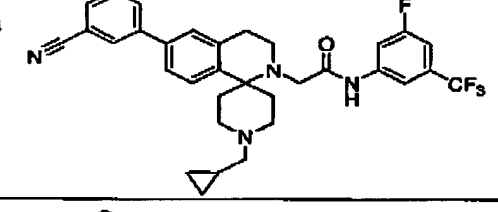
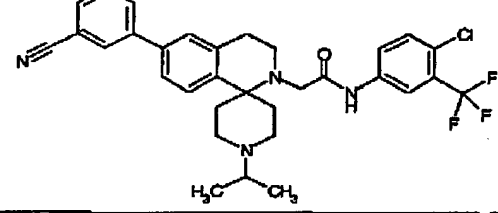
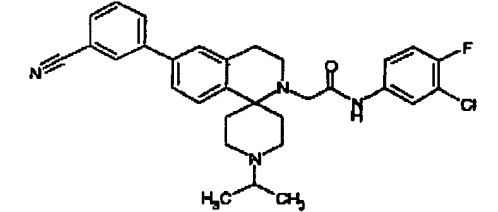
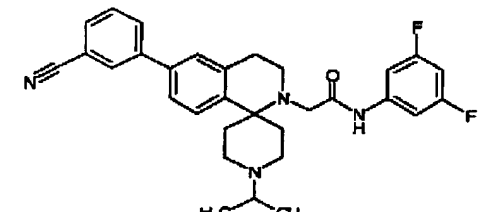
$\text{R}^7$  is hydrogen or halogen.

15. (original) The compound of claim 14 wherein  $\text{R}^7$  is chloride or fluoride.

16. (original) A compound selected from the group consisting of



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8d	
8e	
8f	
7d	
7b	
7c	

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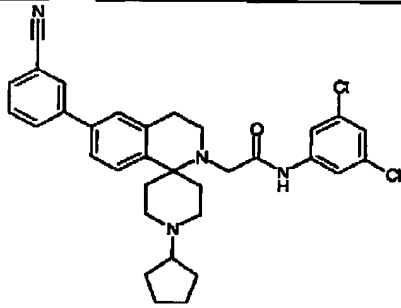
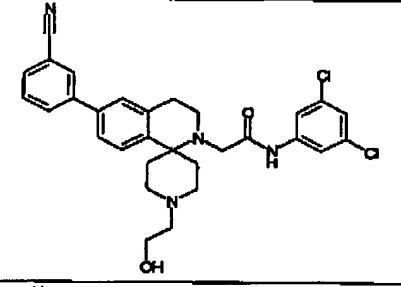
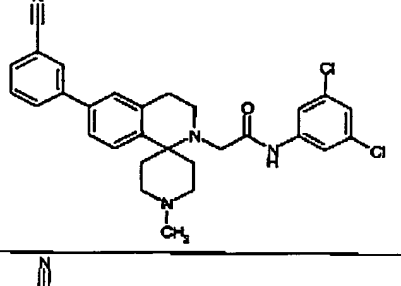
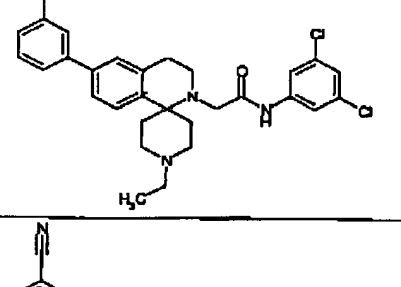
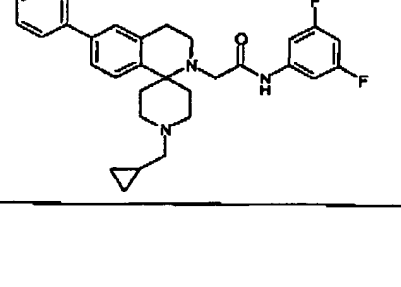
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7a	
7e	
8a	
10c	
11c	

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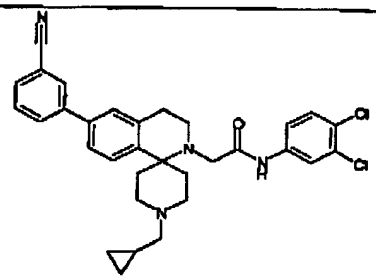
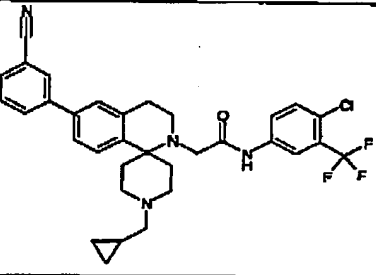
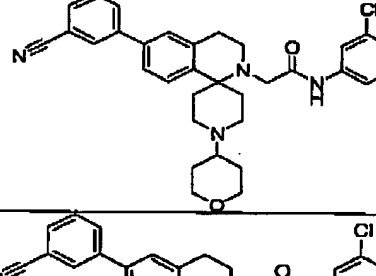
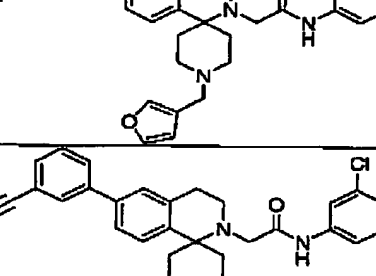
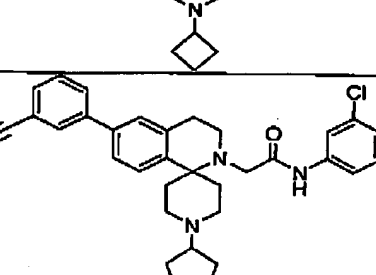
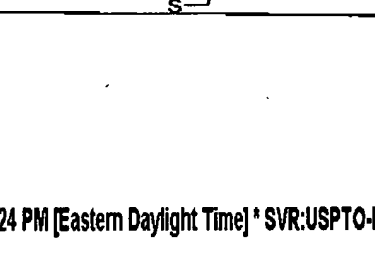
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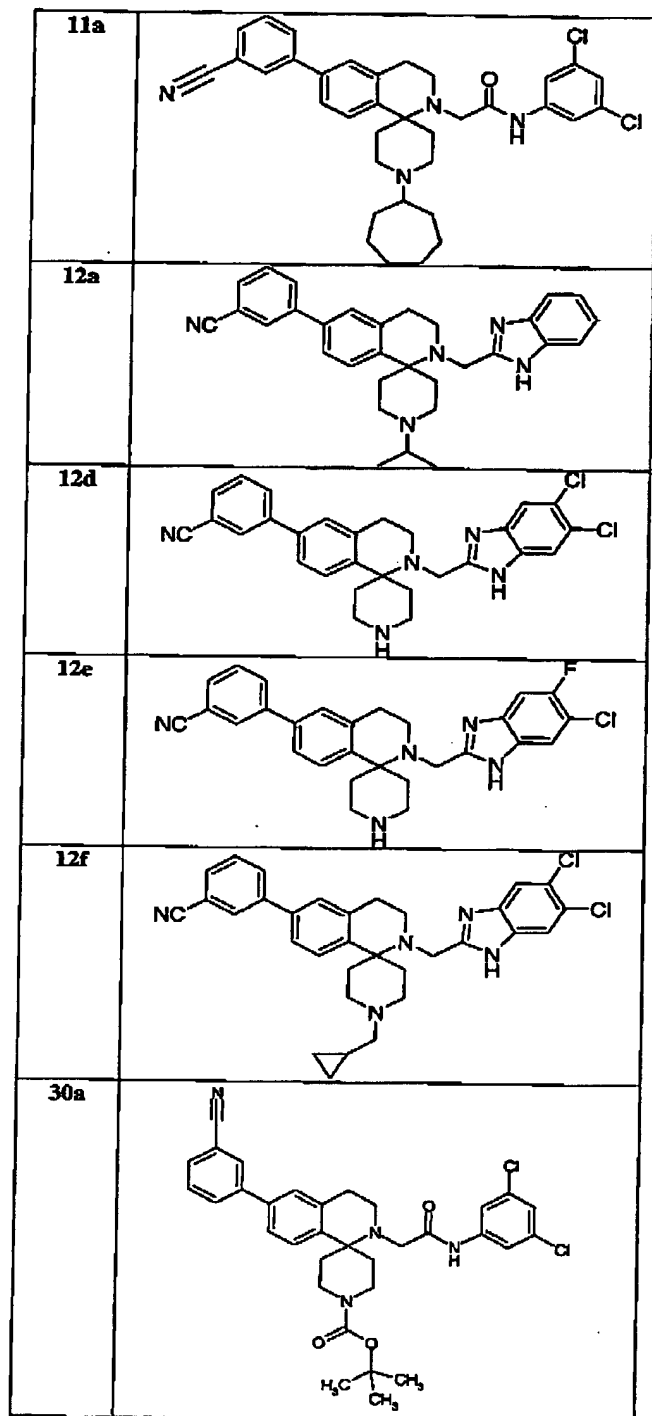
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8h	
8i	
11h	
11i	
11b	
11j	

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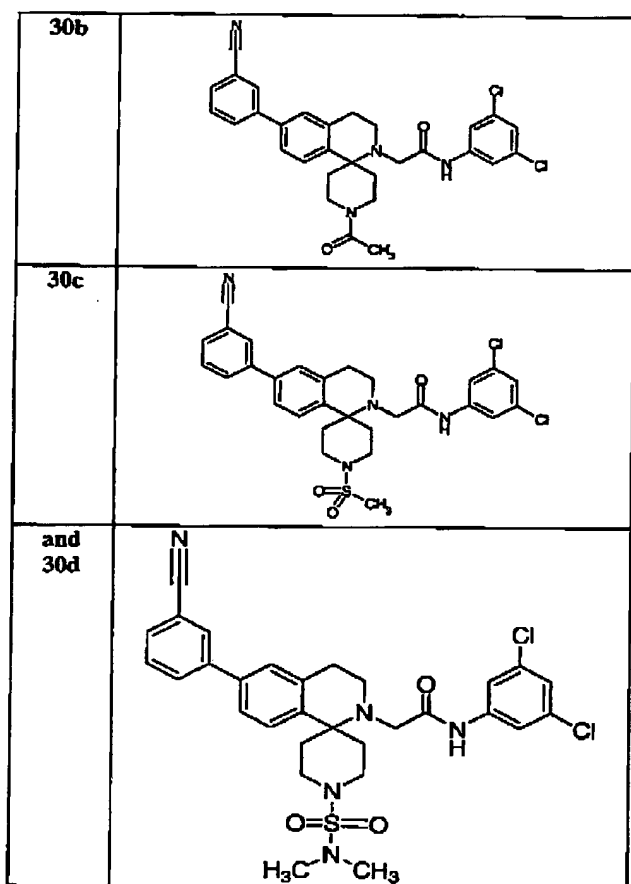
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or a pharmaceutically acceptable salt or solvate.

17. (original) A pharmaceutical composition comprising a therapeutically effective amount of at least one compound of claim 1 in combination with at least one pharmaceutically acceptable carrier.

18. (previously presented) A method of treating obesity, hyperphagia or diabetes comprising administering a therapeutically effective amount of at least one compound of claim 1 to a patient in need of such treatment.

19. (previously presented ) A method of treating hyperphagia comprising administering to a patient in need of such treatment a therapeutically effective

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amount of at least one compound of claim 1, or a pharmaceutically acceptable salt or solvate of said compound.

20. (original) A pharmaceutical composition comprising a therapeutically effective amount of at least one compound of claim 16 in combination with at least one pharmaceutically acceptable carrier.

21. (previously presented) A method of treating obesity, hyperphagia or diabetes comprising administering a therapeutically effective amount of at least one compound of claim 16 to a patient in need of such treatment.

22. (previously presented) A method of treating hyperphagia comprising administering to a patient in need of such treatment a therapeutically effective amount of at least one compound of claim 16, or a pharmaceutically acceptable salt or solvate of said compound.

Claims 23-30 (canceled)